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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/826,294	04/19/2004		Naoko Ito	8046-1017-1	1316	
466 YOUNG & TH	7590 IOMPSON	01/24/2008		EXAM	EXAMINER	
745 SOUTH 23		GORTAYO, DANGELINO N				
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	•	•		01/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicati	on No.	Applicant(s)				
		10/826,2	94	ITO ET AL.	•			
	Office Action Summary	Examine		Art Unit				
		Dangeling	N. Gortayo	2168				
	The MAILING DATE of this commun	ication appears on th	e cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M resions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm reperiod for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months red patent term adjustment. See 37 CFR 1.704(b).	AALLING DATE OF TI s of 37 CFR 1.136(a). In no ev nunication. latutory period will apply and w v will, by statute, cause the app	HIS COMMUNICATION ent, however, may a reply be timil expire SIX (6) MONTHS from slication to become ABANDONE	N. nely filed the mailing date of this communic D (35 U.S.C. § 133).				
Status			•					
1) 🂢	Responsive to communication(s) file	ed on 29 October 200	<u> </u>					
•	·	2b)⊠ This action is r						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		·		•			
4) 🖂	Claim(s) <u>17-30,40-59 and 61</u> is/are	pending in the applica	ation.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>17-30, 40-59, and 61</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)	Claim(s) are subject to restrict	ction and/or election i	equirement.		•			
Applicati	on Papers							
9)	The specification is objected to by th	ne Examiner.		•				
10)	The drawing(s) filed on is/are	: a) accepted or b	o objected to by the I	Examiner.				
·	Applicant may not request that any obje	ection to the drawing(s)	be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	g the correction is requi	ed if the drawing(s) is ob	jected to. See 37 CFR 1.12	21(d).			
11)	The oath or declaration is objected t	o by the Examiner. N	ote the attached Office	Action or form PTO-152	2.			
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority)-(d) or (f).				
-				on No				
	2. Certified copies of the priority3. Copies of the certified copies application from the Internation	of the priority docum	ents have been receive		•			
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen			_					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) Information Paper	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	~ I O- 94 8) 	5) Notice of Informal F 6) Other:					
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/29/2007 has been entered.

Response to Amendment

2. In the amendment filed on 10/29/07, claims 17, 47, and 61 have been amended. The currently pending claims considered below are Claims 17-30, 40-59 and 61.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 17-30, 47-59, and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Jeyaraman</u> (US Patent 6,377,957 B1) in view of <u>Benson</u> et al. (US Patent 6,202,085 B1)

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As per claim 17, <u>Jeyaraman</u> teaches "A structured document processing system" (see Abstract)

"comprising: a network composed of a server device and a plurality of client devices," (Figure 1, Figure 2, column 4 lines 18-38, wherein a system containing a server and a plurality of client devices is disclosed)

"the server device storing a structured document composed of a plurality of elements" (column 3 lines 23-35, column 4 lines 53-65, wherein a server coupled to a document database containing documents is disclosed) "composed of a plurality of elements which are hierarchically organized in a tree structure" (column 4 lines 6-17, wherein documents stored in a document database are tree-structured) "each of the elements being a constituent unit of the structured document," (Figure 6A, column 8 lines 13-25, wherein the elements organized in a tree may represent parts of a document)

"the server device comprising an update manager for managing an update of the structured document using an updated minimum element of the structured document that is marked with a transfer object flag, the updated minimum element including an updated portion of the structured document," (Figure 3 reference 310, 312, Figure 4 reference 406, 408, column 5 lines 37-67, column 6 lines 51-66, column 7 lines 26-67, column 9 lines 31-64, wherein the difference between the updated copy and the original copy is found, indicating the necessary changes, and the update can specify manipulation of nodes using the tags of the nodes)

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"and a transmission section that identifies for transmission the updated minimum element based on a location of the transfer object flag within the tree structure and transmits the identified updated minimum element to one of the client devices." (Figure 3 reference 314, Figure 4 reference 410, column 6 lines 16-23, column 7 lines 10-14, lines 26-67, column 8 line 38 - column 9 line 40, wherein the change commands identifying specific nodes are sent to clients by the server to update cached copies of a document)

Jeyaraman teaches that the system can check if a client contains a copy of a document (column 5 lines 26-35). Jeyaraman does not explicitly teach "each of the client devices storing a duplication of the structured document". Benson teaches "each of the client devices storing a duplication of the structured document" (column 13 lines 31-56, wherein a local copy of a document is stored by a data replication system). It would have been obvious at the time of the invention for one of ordinary skill in the art to combine Jeyaraman's system of propagating document updates to clients with Benson's method of synchronizing exact copies of data from sources to synchronizing clients without having to check if a copy is contained in a client. This would give the user the advantage of improving access time and performance by eliminating a step in the process of propagating changes to a document in a network. The motivation for doing so would be to provide a generalized synchronization model. (Benson, column 3 lines. 39-48)

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As per claim 18, <u>Jeyaraman</u> teaches "the update manager instructs the transmission section to transmit the updated minimum element of the structured document when the structured document has been updated. (column 7 lines 19-24)

As per claim 19, Jeyaraman teaches "the update manager instructs the transmission section to transmit update information to one of the client devices when the structured document has been updated, the update information including identification information identifying the updated minimum element of the structured document" (column 7 lines 50-67)

As per claim 20, <u>Jeyaraman</u> teaches "the update manager manages the update of the structured document using an update time at which the update of the structured document occurs, wherein, when an update occurs at the node, the update manager instructing the transmission section to transmit update information to a client device, the update information including the update time." (column 5 lines 33-37, lines 48-54, column 7 lines 19-24)

As per claim 21, <u>Jeyaraman</u> teaches "when a client device receives the update information from the server device, the client device updates the structured document stored therein based on the update information received. " (column 6 lines 17-23, column 7 lines 10-18)

As per claim 22, <u>Jeyaraman</u> teaches "each of the client devices comprises: a comparator for comparing the update time of the update information received is later than an updated time of the structured document currently stored therein;" (column 5 lines 33-38)

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"and a transmission controller for requesting transfer of an updated minimum element of the structured document when the update time of the update information received is later than the updated time of the structured document currently stored therein." (column 5 lines 33-54)

As per claim 23, <u>Jeyaraman</u> teaches "the update manager transmits an updated minimum element of the structured document to a client device at a plurality of predetermined times." (column 7 lines 19-24)

As per claim 24, <u>Jeyaraman</u> teaches "the update manager transmits update information to the client device at a plurality of predetermined times, the update information including identification information identifying an updated minimum element of the structured document." (column 5 lines 48-54, column 7 lines 19-24)

As per claim 25, <u>Jeyaraman</u> teaches "the update manager manages the update of the structured document using an update time at which the update of the structured document occurs, the update information further includes the update time." (column 5 lines 48-54, column 7 lines 19-24)

As per claim 26, <u>Benson</u> teaches "a gateway server device performing protocol processing between the server device and each of the client devices," (Figure 2 reference 34 and column 10 lines 35-53)

"wherein the server device transmits update information indicating that the structured document is updated to the gateway server device," (column 11 lines 5-18)

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"wherein the gateway server device comprises: an structured document manager for managing the duplication of the structured document stored in the client device;"

(Figure 2 reference 34 and column 13 line 57 – column 15 line 11)

"an update information receiver for receiving update information from the server device;" (column 14 lines 13-36)

"and an update controller for transmitting the update information received from the server device to the client device." (column 15 lines 1-11)

As per claim 27, <u>Jeyaraman</u> teaches "the update controller transmits the update information received from the server device to the client device at a plurality of predetermined times." (column 7 lines 19-24)

As per claim 28, <u>Benson</u> teaches "when a client device receives the update information from the gateway server device, the client device updates the duplication of the structured document stored therein based on the update information received." (column 11 lines 5-18)

As per claim 29, <u>Jeyaraman</u> teaches "each of the client devices comprises: a comparator for comparing the update time of the update information received is later than an updated time of the structured document currently stored therein;" (column 5 lines 33-38)

"and a transmission controller for requesting transfer of an updated minimum element of the structured document when the update time of the update information received is later than the updated time of the structured document currently stored therein." (column 5 lines 33-54)

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As per claim 30, <u>Benson</u> teaches "a gateway server device performing protocol processing between the server device and each of the client devices," (Figure 2 reference 34 and column 10 lines 35-53)

"wherein the server device transmits update information including an update time and the updated minimum element to the gateway server device," (column 13 lines 57-65)

"wherein the gateway server device comprises: an structured document storage for storing the duplication of the structured document stored in the client device;" (Figure 2 reference 68 and column 12 lines 52-67)

"an structured document manager for managing the duplication of the structured document for the client device and an update time thereof;" (Figure 2 reference 34 and column 13 line 57 – column 15 line 11)

"an update information receiver for receiving the update information from the server device; and an update controller for transmitting the updated minimum element of the structured document to a client device having the update time of the structured document stored therein, which is later than the update time included in the update information received from the server device." (column 14 lines 13-36)

As per claim 47, <u>Jeyaraman</u> teaches "A structured document updating method" (see Abstract) "in a network composed of a server device and a plurality of client devices," (Figure 1, Figure 2, column 4 lines 18-38, wherein a system containing a server and a plurality of client devices is disclosed)

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"the server device storing a structured document" (column 3 lines 23-35, column 4 lines 53-65, wherein a server coupled to a document database containing documents is disclosed) "composed of a plurality of elements which are hierarchically organized in a tree structure, (column 4 lines 6-17, wherein documents stored in a document database are tree-structured) "each of the elements being a constituent unit of the structured document," (Figure 6A, column 8 lines 13-25, wherein the elements organized in a tree may represent parts of a document)

the method comprising the steps of: at the server device, a) managing an update of the structured document using an updated minimum element of the structured document, the updated minimum element including an updated portion of the structured document that is marked with a transfer object flag" (Figure 3 reference 310, 312, Figure 4 reference 406, 408, column 5 lines 37-67, column 6 lines 51-66, column 7 lines 26-67, column 9 lines 31-64, wherein the difference between the updated copy and the original copy is found, indicating the necessary changes, and the update can specify manipulation of nodes using the tags of the nodes)

"and b) identifying for transmission the updated minimum element based on a location of the transfer object flag within the tree structure and transmitting the identified updated minimum element to the client device." (Figure 3 reference 314, Figure 4 reference 410, column 6 lines 16-23, column 7 lines 10-14, lines 26-67, column 8 line 38 - column 9 line 40, wherein the change commands identifying specific nodes are sent to clients by the server to update cached copies of a document)

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Jeyaraman teaches that the system can check if a client contains a copy of a document (column 5 lines 26-35). Jeyaraman does not explicitly teach "each of the client devices storing a duplication of the structured document". Benson teaches "each of the client devices storing a duplication of the structured document" (column 13 lines 31-56, wherein a local copy of a document is stored by a data replication system). It would have been obvious at the time of the invention for one of ordinary skill in the art to combine Jeyaraman's system of propagating document updates to clients with Benson's method of synchronizing exact copies of data from sources to synchronizing clients without having to check if a copy is contained in a client. This would give the user the advantage of improving access time and performance by eliminating a step in the process of propagating changes to a document in a network. The motivation for doing so would be to provide a generalized synchronization model. (Benson, column 3 lines 39-48)

As per claim 48, Jeyaraman teaches "at a client device receiving an updated minimum element of the structured document from the server device, c) updating a corresponding minimum element of the structured document stored therein using the updated minimum element received." (column 7 lines 19-24)

As per claim 49, <u>Jeyaraman</u> teaches "in the step (a), the update of the information is managed using an update time at which the update of the information occurs, wherein the step (b) comprises the step of: transmitting update information to the client devices, the update information including the update time." (column 5 lines 33-37, lines 48-54, column 7 lines 19-24)

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As per claim 50, <u>Jeyaraman</u> teaches "at a client device receiving the update information from the server device, c) updating the information stored therein based on the update information received." (column 6 lines 17-23, column 7 lines 10-18)

As per claim 51, <u>Jeyaraman</u> teaches "the step (c) comprises the steps of: determining whether the update time of the update information received is later than an updated time of the structured document currently stored therein;" (column 5 lines 33-38)

"and when the update time of the update information received is later than an updated time of the structured document currently stored therein, requesting transfer of an updated minimum element of the structured document." (column 5 lines 33-54)

As per claim 52, <u>Jeyaraman</u> teaches "an updated minimum unit of the structured document is transmitted to the client devices at a plurality of predetermined times." (column 7 lines 19-24)

As per claim 53, <u>Jeyaraman</u> teaches "update information is transmitted to the client devices at a plurality of predetermined times, the update information including identification information identifying an updated minimum unit of the structured document." (column 5 lines 48-54, column 7 lines 19-24)

As per claim 54, <u>Jeyaraman</u> teaches "the update of the information is managed using an update time at which the update of the structured document occurs, the update information further includes the update time." (column 5 lines 48-54, column 7 lines 19-24)

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As per claim 55, <u>Benson</u> teaches "the network further comprises a gateway server device performing protocol processing between the server device and each of the client devices," (Figure 2 reference 34 and column 10 lines 35-53)

"the method further comprising the steps of: at the gateway server device, c) managing the structured document stored in each of the client devices;" (Figure 2 reference 34 and column 13 line 57 – column 15 line 11)

"d) receiving an update information from the server device;" (column 11 lines 5-18)

"and e) transmitting the update information received from the server device to a client device." (column 15 lines 1-11)

As per claim 56, <u>Jeyaraman</u> teaches "in the step (e), the update information received from the server device is transmitted to the client device at a plurality of predetermined times." (column 7 lines 19-24)

As per claim 57, <u>Benson</u> teaches "at the client device receiving the update information from the gateway server device, updating the structured document stored therein based on the update information received." (column 11 lines 5-18)

As per claim 58, <u>Jeyaraman</u> teaches "at the client device, determining whether the update time of the update information received is later than an updated time of the structured document currently stored therein;" (column 5 lines 33-38)

"and when the update time of the update information received is later than an updated time of the structured document currently stored therein, using the identification

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information to request transfer of an updated minimum unit of the structured document from the gateway server device." (column 5 lines 33-54)

As per claim 59, <u>Benson</u> teaches "the network further comprises a gateway server device performing protocol processing between the server device and each of the client devices," (Figure 2 reference 34 and column 10 lines 35-53)

"the method further comprising the steps of: at the gateway server device, storing the structured document stored in each of the client devices in an information storage;" (Figure 2 reference 68 and column 12 lines 52-67)

"managing the structured document for each of the client devices and an update time thereof;" (Figure 2 reference 34 and column 13 line 57 – column 15 line 11)

"receiving an update information from the server device at which an update of the structured document occurs;" (column 14 lines 13-36)

"selecting a client device having the update time of the structured document stored therein, which is later than the update time included in the update information received from the server device;" (column 13 line 57 – column 15 line 11)

"and transmitting the updated minimum unit of the structured document identified by the identification information included in the update information received from the server device, to the selected client device." (column 14 lines 13-36)

As per claim 61, <u>Jeyaraman</u> teaches "A storage medium storing a computer program for updating a structured document in a network" (see Abstract)

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"composed of a server device and a plurality of client devices," (Figure 1, Figure 2, column 4 lines 18-38, wherein a system containing a server and a plurality of client devices is disclosed)

"the server device storing a structured document" (column 3 lines 23-35, column 4 lines 53-65, wherein a server coupled to a document database containing documents is disclosed) "composed of a plurality of elements which are hierarchically organized in a tree structure," (column 4 lines 6-17, wherein documents stored in a document database are tree-structured) "each of the elements being a constituent unit of the structured document," (Figure 6A, column 8 lines 13-25, wherein the elements organized in a tree may represent parts of a document)

the computer program at the server device comprising the steps of: a) managing an update of the structured document using an updated minimum element of the structured document that is marked with a transfer object flag, the updated minimum element including an updated portion of the structured document; (Figure 3 reference 310, 312, Figure 4 reference 406, 408, column 5 lines 37-67, column 6 lines 51-66, column 7 lines 26-67, column 9 lines 31-64, wherein the difference between the updated copy and the original copy is found, indicating the necessary changes, and the update can specify manipulation of nodes using the tags of the nodes)

"identifying for transmission the updated minimum element based on a location of the transfer object flag within the tree structure and transmitting the identified updated minimum element to the client devices." (Figure 3 reference 314, Figure 4 reference 410, column 6 lines 16-23, column 7 lines 10-14, lines 26-67, column 8 line 38 - column

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9 line 40, wherein the change commands identifying specific nodes are sent to clients by the server to update cached copies of a document)

Jeyaraman teaches that the system can check if a client contains a copy of a document (column 5 lines 26-35). Jeyaraman does not explicitly teach "each of the client devices storing a duplication of the structured document". Benson teaches "each of the client devices storing a duplication of the structured document" (column 13 lines 31-56, wherein a local copy of a document is stored by a data replication system). It would have been obvious at the time of the invention for one of ordinary skill in the art to combine Jeyaraman's system of propagating document updates to clients with Benson's method of synchronizing exact copies of data from sources to synchronizing clients without having to check if a copy is contained in a client. This would give the user the advantage of improving access time and performance by eliminating a step in the process of propagating changes to a document in a network. The motivation for doing so would be to provide a generalized synchronization model. (Benson, column 3 lines 39-48)

Response to Arguments

5. Applicant's arguments with respect to the rejection for claim 17-30, 47-59, and 61 under 35 USC 103(a) have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Aoki et al. (US Patent 6,078,913 A) Chu et al. (US Patent 6,493,720 B1) Gounares et al. (US Patent 6,681,370 B2)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dangelino N. Gortayo whose telephone number is (571)272-7204. The examiner can normally be reached on M-F 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim T. Vo can be reached on (571)272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Dangelino N. Gortayo Examiner

Tim T. Vo SPE

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